

**U.S. Patent Serial No. 09/129,298
Amendment Under 37 C.F.R. § 1.116**

PATENT APPLICATION

in the strand that contains the deoxynucleotides. In one embodiment, the heterologous region is located on the strand that contains the 5' terminal nucleotide.

IN THE CLAIMS:

Please enter the following amended claims:

Claims 1 and 16 as follows:

- D1*
1. A method of making a localized mutation in a plant cell to a target gene having a known sequence causing a desired trait in the plant cell comprising the steps of:
- (a) adhering to a particle a recombinagenic oligonucleobase, which contains a first homologous region which has a sequence identical to the sequence of at least 6 base pairs of a first fragment of the target gene and a second homologous region which has a sequence identical to the sequence of at least 6 base pairs of a second fragment of the target gene, and an intervening region which contains at least 1 nucleobase heterologous to the target gene, which intervening region connects the first homologous region and the second homologous region;
 - (b) introducing the particle into a cell of a population of plant cells;
 - (c) identifying a cell of the population of plant cells having a mutation located between the first and second fragments of the target gene.

- D2*
16. A method of making a localized mutation in a plant cell to a target gene having a known sequence causing a desired trait in the plant cell having a cell wall comprising the steps of:
- (a) perforating the cell walls of a population of plant cells;
 - (b) introducing a recombinagenic oligonucleobase, which contains a first homologous region which has a sequence identical to the sequence of at least 6 base pairs of a first fragment of the target gene and a second homologous region which has a sequence identical to the sequence of at least 6 base pairs of a second fragment of the target gene, and an intervening region which contains at least 1 nucleobase heterologous to the target gene, which intervening region connects the first homologous region and the second homologous region;